CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 19.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.

Agency **Sri C T Raju,** Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.11.2020	19.12.2020	8.209	725.6	32.25
2	21.11.2020	19.12.2020	8.083	713.4	31.71
3	21.11.2020	19.12.2020	8.071	708.7	31.50

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 19.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer , R R Nagara Division, BBMP, Bangalore.

Agency : Sri C T Raju, Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.11.2020	19.12.2020	8.198	745.2	33.12
2	21.11.2020	19.12.2020	8.167	730.6	32.47
3	21.11.2020	19.12.2020	8.154	722.2	32.10

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ISO 9001:2015 CERTIFIED

Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 19.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Executive Engineer ,'R R Nagara Division, BBMP, Bangalore.

Agency Sri C T Raju, Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.11.2020	19.12.2020	8.011	704.5	31.31
2	21.11.2020	19.12.2020	8.006	718.2	31.92
3	21.11.2020	19.12.2020	8.024	723.5	32.16

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 15.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri C T Raju,** Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.11.2020	15.12.2020	8.147	730.3	32.46
2	17.11.2020	15.12.2020	8.159	728.1	32.36
3	17.11.2020	15.12.2020	8.168	708.5	31.49

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.

Agency **Sri C T Raju,** Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.11.2020	15.12.2020	8.188	700.7	31.14
2	17.11.2020	15.12.2020	8.142	717.5	31.89
3	17.11.2020	15.12.2020	8.165	729.8	32.44

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 15.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.
Agency	**Sri C T Raju,** Contractor, Bangalore.
Name of the work	: Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.11.2020	15.12.2020	8.120	734.2	32.63
2	17.11.2020	15.12.2020	8.107	722.8	32.12
3	17.11.2020	15.12.2020	8.156	711.4	31.62

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 15.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri C T Raju,** Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.11.2020	15.12.2020	8.136	701.4	31.17
2	17.11.2020	15.12.2020	8.175	712.7	31.68
3	17.11.2020	15.12.2020	8.189	728.5	32.38

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date 23.09.2020

TEST REPORT ON SOLID CONCRETE BLOCKS

Client Executive Engineer , R R Nagara Division, BBMP, Bangalore.

Agency Sri C T Raju, Contractor, Bangalore.

Name of the Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Date of Testing 23.09.2020

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

SLNo.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	31.8	296.8	3.71	1987.50	Minimum required Compressive Strength of Individual Units 3.5N/mm^2
2	Block 2	33.6	306.7	3.83	2100.00	
3	Block 3	31.4	313.3	3.92	1962.50	
4	Block 4	32.7	321.1	4.01	2043.75	

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Job No.: CQCE/BBMP/CTR/W No 17/2020-21

Date 04.01.2021

GRADATION FOR DRY LEAN CONCRETE
MORTH TABLE-600-1

Client : Executive Engineer , R R Nagara Division, BBMP, Bangalore.

Agency : Sri C T Raju, Contractor, Bangalore.

Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Date of Testing : 04.01.2021

Material : Dry Lean Concrete

Oven Dry Wt (gm): 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
26.5	0	0	0	100	100
19	846	846	8.5	91.5	75-95
9.5	2395	3241	32.4	67.6	50-70
4.75	1368	4609	46.1	53.9	30-55
2.36	3214	7823	78.2	21.8	17-42
0.6	865	8688	86.9	13.1	8-22
0.3	139	8827	88.3	11.7	7-17
0.15	184	9011	90.1	9.9	2-12
0.075	643	9654	96.5	3.5	0-10

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JobNo: CQCE/BBMP/CTR/W.No.17/2020-21 Date 14.01.2021

GRADATION FOR GSB (Grading V)

Client Executive Engineer , R R Nagara Division, BBMP, Bangalore.
Agency Sri C T Raju, Contractor, Bangalore.
Name of work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985
Date of Testing 12.01.2021 to 14.01.2021

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1125	1125	8.65	91.35	80-100
26.5	2014	3139	24.15	75.85	55-90
9.5	2321	5460	42.00	58.00	35-65
4.75	1658	7118	54.75	45.25	25-50
2.36	3698	10816	83.20	16.80	10-20
0.85	1563	12379	95.22	4.78	2-10
0.425	163	12542	96.48	3.52	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	22.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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JobNo: CQCE/BBMP/CTR/W.No.17/2020-21 Date 14.01.2021

GRADATION FOR GSB (Grading V)

Client Executive Engineer , R R Nagara Division, BBMP, Bangalore.
Agency Sri C T Raju, Contractor, Bangalore.
Name of work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985
Date of Testing 12.01.2021 to 14.01.2021

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	522	522	4.02	95.98	80-100
26.5	2369	2891	22.24	77.76	55-90
9.5	2451	5342	41.09	58.91	35-65
4.75	1525	6867	52.82	47.18	25-50
2.36	3698	10565	81.27	18.73	10-20
0.85	1524	12089	92.99	7.01	2-10
0.425	658	12747	98.05	1.95	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	24.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Job No: CQCE/BBMP/CTR/W No.17/2020-21 Date: 14.01.2021

GRADATION FOR GSB (Grading V)

Client : Executive Engineer, R R Nagara Division, BBMP, Bangalore.
Agency : Sri C T Raju, Contractor, Bangalore.
Name of work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985
Date of Testing : 12.01.2021 to 14.01.2021

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	802	802	6.17	93.83	80-100
26.5	2014	2816	21.66	78.34	55-90
9.5	2463	5279	40.61	59.39	35-65
4.75	1587	6866	52.82	47.18	25-50
2.36	3562	10428	80.22	19.78	10-20
0.85	1748	12176	93.66	6.34	2-10
0.425	536	12712	97.78	2.22	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	21.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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JobNo: CQCE/BBMP/CTR/W.No.17/2020-21 Date 14.01.2021

GRADATION FOR GSB (Grading V)

Client Executive Engineer , R R Nagara Division, BBMP, Bangalore.
Agency Sri C T Raju, Contractor, Bangalore.
Name of work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985
Date of Testing 12.01.2021 to 14.01.2021

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1021	1021	7.85	92.15	80-100
26.5	2369	3390	26.08	73.92	55-90
9.5	2458	5848	44.98	55.02	35-65
4.75	1521	7369	56.68	43.32	25-50
2.36	3426	10795	83.04	16.96	10-20
0.85	1578	12373	95.18	4.82	2-10
0.425	325	12698	97.68	2.32	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	22.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400.1, Grading V

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e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date : 21.01.2021

GRADATION FOR WMM

Client **Executive Engineer**, R R Nagara Division, BBMP, Bangalore.
Agency **Sri C T Raju**, Contractor, Bangalore.
Name of Work Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing 21.01.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	245	245	2.5	97.6	95-100
22.4	2569	2814	28.1	71.9	60-80
11.2	2321	5135	51.4	48.7	40-60
4.75	1654	6789	67.9	32.1	25-40
2.36	1123	7912	79.1	20.9	15-30
0.600	548	8460	84.6	15.4	8-22
0.075	1235	9695	97.0	3.1	0-5

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Agency: Sri C T Raju, Contractor, Bangalore.
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IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing: 21.01.2021
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Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	223	223	2.2	97.8	95-100
22.4	2458	2681	26.8	73.2	60-80
11.2	2263	4944	49.4	50.6	40-60
4.75	1784	6728	67.3	32.7	25-40
2.36	1236	7964	79.6	20.4	15-30
0.600	569	8533	85.3	14.7	8-22
0.075	1124	9657	96.6	3.4	0-5

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53	0	0	0	100	100
45	481	481	4.8	95.2	95-100
22.4	2536	3017	30.2	69.8	60-80
11.2	2329	5346	53.5	46.5	40-60
4.75	1658	7004	70.0	30.0	25-40
2.36	1124	8128	81.3	18.7	15-30
0.600	542	8670	86.7	13.3	8-22
0.075	1021	9691	96.9	3.1	0-5

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IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing 21.01.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

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53	0	0	0	100	100
45	248	248	2.5	97.5	95-100
22.4	2569	2817	28.2	71.8	60-80
11.2	2331	5148	51.5	48.5	40-60
4.75	1589	6737	67.4	32.6	25-40
2.36	1223	7960	79.6	20.4	15-30
0.600	541	8501	85.0	15.0	8-22
0.075	1124	9625	96.3	3.8	0-5

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53	0	0	0	100	100
45	235	235	2.4	97.7	95-100
22.4	2547	2782	27.8	72.2	60-80
11.2	2369	5151	51.5	48.5	40-60
4.75	1847	6998	70.0	30.0	25-40
2.36	1212	8210	82.1	17.9	15-30
0.600	589	8799	88.0	12.0	8-22
0.075	958	9757	97.6	2.4	0-5

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ISO 9001:2000 CERTIFIED

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53	0	0	0	100	100
45	258	258	2.6	97.4	95-100
22.4	2563	2821	28.2	71.8	60-80
11.2	2147	4968	49.7	50.3	40-60
4.75	1658	6626	66.3	33.7	25-40
2.36	1123	7749	77.5	22.5	15-30
0.600	521	8270	82.7	17.3	8-22
0.075	1587	9857	98.6	1.4	0-5

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53	0	0	0	100	100
45	248	248	2.5	97.5	95-100
22.4	2563	2811	28.1	71.9	60-80
11.2	2147	4958	49.6	50.4	40-60
4.75	1695	6653	66.5	33.5	25-40
2.36	1324	7977	79.8	20.2	15-30
0.600	582	8559	85.6	14.4	8-22
0.075	1239	9798	98.0	2.0	0-5

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